Index of Authors

AKPOTI, P. *see* OFUYA, C. O.
ALLISON, C. *see* MACFARLANE, G. T.
ARCHER, D. B. *see* WYATT, G. M.
ARNOTT, M. L., GUTTERIDGE, C. S., PUGH, S. J. & GRIFFITHS, J. L. Detection of salmonellas in confectionery by conductance 409
ARRIBAS, M. L. G., PLAZA, C. J., DE LA ROSA, M. C. & MOSSO, M. A. Characterization of *Bacillus cereus* strains isolated from drugs and evaluation of their toxins 257
ASHBELL, G. *see* WEINBERG, Z. G.
AZRIELI, A. *see* WEINBERG, Z. G.
BANKES, P. *see* BETTS, R. P.
BAYLY, R. C. *see* POH, C. L.
BENNETT, P. M. *see* LINTON, A. H.
BERKELEY, R. C. W. *see* SHUTE, L. A.
BERWICK, P. G. β-Lactam and aminoglycoside production from streptomycetes 9
BETTS, R. P., FARR, L., BANKES, P. & STRINGER, M. F. The detection of irradiated foods using the Direct Epifluorescent Filter Technique 329
BLANCO, J. L., DOMÍNGUEZ, L., GÓMEZ-LUCÍA, E., GARAYZABAL, J. F. F., GOYACHE, J. & SÜAREZ, G. Experimental aflatoxin production in Manchego-type cheese 17
BLANCO CANCELO, J.L. *see* VAZQUEZ-BOLAND, J. A.
BLOOR, K. *see* LEAPER, S.
BOCKEMÜHL, J. *see* WOKATSCH, R.
BOJAR, R. A., HOLLAND, K. T., LEEMING, J. P. & CUNLIFFE, W. J. Azelaic acid: its uptake and mode of action in *Staphylococcus epidermidis* NCTC 11047 497
BRIONES DIESTE, V. *see* VAZQUEZ-BOLAND, J. A.
CHAND, P., KHANNA, R. N. S. & SADANNA, J. R. Counter-immunoelectrophoresis for the detection of *Brucella* antigen and antibodies in the diagnosis of brucellosis in buffaloes 445
CLERKX, A. C. M. *see* PUT, H. M. C.
COSTAS, M. *see* HOLMES, B.
COSTERTON, J. W. *see* LAPPIN-SCOTT, H. M.
COX, J. M. & MAC RAE, I. C. Growth of psychrotrophic bacteria in raw and UHT-treated goats' milk 403
CUMMINGS, J. H. *see* MACFARLANE, G. T.
CUNLIFFE, W. J. *see* BOJAR, R. A.
CUSACK, F. *see* LAPPIN-SCOTT, H. M.
DE LA ROSA, M. C. *see* ARRIBAS, M. L. G.
DICKS, L. M. T. & VAN VUUREN, H. J. J. Identification and physiological characteristics of heterofermentative strains of *Lactobacillus* from South African wines 505
DOMÍNGUEZ, L. *see* BLANCO, J. L.
DOMINGUEZ RODRIGUEZ, L. *see* VAZQUEZ-BOLAND, J. A.
DURING, M. *see* HAVELAAR, A. H.
ESCHENBRUCH, R. E. *see* WIBOWO, D.
FARR, L. *see* BETTS, R. P.
FLEET, G. H. *see* WIBOWO, D.
FURR, J. R. *see* SHAKER, L. A.
GARAYZABAL, J. F. F. *see* BLANCO, J. L. *also* VAZQUEZ-BOLAND, J. A.
GARCÍA, M. C. *see* OTERO, A.
GARCÍA, M. L. *see* OTERO, A.
GEORGE, S. M. *see* LUND, B. M.
GIBSON, S. A. W. *see* MACFARLANE, G.T.
GIBSON, A. M., MODI, N. K., ROBERTS, T. A., HAMBLETON, P. & MELLING, J. Evaluation of a monoclonal antibody-based immunoassay for detecting type B *Clostridium botulinum* toxin produced in pure cultures and an inoculated model cured meat system 285
GÓMEZ-LUCÍA, E. *see* BLANCO, J. L. *also* VAZQUEZ-BOLAND, J. A.
GONZÁLEZ, C. *see* RIVILLA, R.
GOYACHE, J. *see* BLANCO, J. L.
GRAHAM, A. F. *see* LUND, B. M.
GRIFFITHS, J. L. *see* ARNOTT, M. L.
GUTTERIDGE, C. S. *see* SHUTE, L. A. *also* ARNOTT, M. L.
HAMBLETON, P. *see* GIBSON, A. M.
HAMMOND, J. R. M. *see* SIMPSON, W. J.
HARAKEH, S., ILLESCAS, A. & MATIN, A. Inactivation of bacteria by Purogene 459
HARRISON, M. D. *see* MADDOX, D. A.
HARSHEMESH, H. *see* PASTER, N.
HAVELAAR, A. H. & DURING, M. Evaluation of the Anderson Baird-Parker direct plating method for enumerating *Escherichia coli* in water 89
HEDGES, A. J. *see* LINTON, A. H.
HEDGES, A. J. & LINTON, A. H. Olaquindox resistance in the coliform flora of pigs and their environment: an ecological study 429
HENSCHKE, P. A. & THOMAS, D. S. Detection of wine-spoiling yeasts by electronic methods 123
HESSELTINE, C. W. & RAY, M. L. Lactic acid bacteria in murcha and ragi 395
HINTON, M. *see* KAUKAS, A.
HIRAISHI, A. High-performance liquid chromatographic analysis of demethylmenaquinone and menaquinone mixtures from bacteria 103
HOLLAND, K. T. *see* BOJAR, R. A.

HOLMES, B., COSTAS, M. & SLOSS, L. L. Numerical analysis of electrophoretic protein patterns of *Providencia alcalifaciens* strains from human faeces and veterinary specimens 27

HOLMES, B. & HUMPHRY, P. S. Identification of Enterobacteriaceae with the Minitek system 151

HUMPHREY, T. J. Peroxide sensitivity and catalase activity in *Campylobacter jejuni* after injury and during recovery 337

HUMPHRY, P. S. *see* HOLMES, B.

IBIEBELE, D. D. *see* SOKARI, T. G.

ICHIMAN, Y. *see* YOSHIDA, K.

ILLESCAS, A. *see* HARAKEH, S.

INTERNATIONAL COMMITTEE ON SYSTEMATIC BACTERIOLOGY International Committee on Systematic Bacteriology announcement of the report of the *ad hoc* Committee on Reconciliation of Approaches to Bacterial Systematics 283

JUVEN, B. J. *see* STERN, N. J. *also* PASTER, N.

JUWARKAR, A. & REWARI, R. B. Synergistic effect of relative humidity and temperature on the survival of rhizobia in inoculant carrier 465

KAROL, M. H. *see* RYAN, L. K.

KAUKAS, A., HINTON, M. & LINTON, A. H. The effect of growth-promoting antibodies on the faecal enterococci of healthy young chicken 57

KAZMI, S. U. *see* STERN, N. J.

KERRY WILLIAMS, S. M. & NOBLE, W. C. Plasmids in coryneform bacteria of human origin 475

KHANNA, R. N. S. *see* CHAND, P.

KHANNA, V. *see* KUMAR, B.

KHATTAR, M. M., SALT, W. G. & STRETTON, R. J. The influence of pyrithione on the growth of micro-organisms 265

KISHINEVSKY, B. *see* LOCHNER, H. H.

KROLL, R. G. *see* RODRIGUES, U. M.

KUCEY, R. M. N. Plant growth-altering effects of *Azospirillum brasilense* and *Bacillus* C-11-25 on two wheat cultivars 187

KUMAR, B., KHANNA, V., SAXENA, M. & SHARMA, S. Survival of *Staphylococcus epidermidis* on the skin of patients of lepromatous leprosy 471

LAPPIN-SCOTT, H. M., CUSACK, F., MACLEOD, A. & COSTERTON, J. W. Starvation and nutrient resuscitation of *Klebsiella pneumoniae* isolated from oil well waters 541

LEAPER, S. & BLOOR, K. A note on the effect of storage on the chemical resistance of spores of *Bacillus subtilis* SA22 and *Bacillus subtilis globigii* B17 183

LEE, T. H. *see* WIBOWO, D.

LEEMING, J. P. *see* BOJAR, R. A.

LINTON, A. H. *see* KAUKAS, A. *also* HEDGES, A. J.

LINTON, A. H., HEDGES, A. J. & BENNETT, P. M. Monitoring for the development of antimicrobial resistance during the use of olaquindox as a feed additive on commercial pig farms 311

LLOYD, D. H. *see* NOBLE, W. C.

LOCHNER, H. H., STRIJDOM, B. W., KISHINEVSKY, B. & STEYND, P. L. Limitations of the enzyme-linked immunosorbent assay for routine determination of legume inoculant quality 209

LUND, B. M., GRAHAM, A. F. & GEORGE, S. M. Growth and formation of toxin by *Clostridium botulinum* in peeled, inoculated, vacuum-packed potatoes after a double pasteurization and storage at 25°C 241

MAC RAE, I. C. *see* COX, J. M.

MACFARLANE, G. T., ALLISON, C., GIBSON, S. A. W. & CUMMINGS, J. H. Contribution of the microflora to proteolysis in the human large intestine 37

MACLEOD, A. *see* LAPPIN-SCOTT, H. M.

MADDOX, D. A. & HARRISON, M. D. Presence and population dynamics of *Erwinia carotovora* in irrigation water in south central Colorado 169

MARTIN, K. L. *see* PHILLIPS, A. P.

MARTINEZ, J. *see* RODRIGUEZ, Ma. M.

MASTERS, F. *see* THOMAS, C. J.

MATIN, A. *see* HARAKEH, S.

MELLING, J. *see* GIBSON, A. M.

MILLER, R. M. *see* SIMPSON, W. J.

MODI, N. K. *see* GIBSON, A. M.

MORENO, B. *see* OTERO, A.

MOSSO, M. A. *see* ARRIBAS, M. L. G.

NOBLE, W. C., RAHMAN, M. & LLOYD, D. H. Plasmids in *Staphylococcus hyicus* 145

NOBLE, W. C. *see* KERRY WILLIAMS, S. M.

NORRIS, J. R. *see* SHUTE, L. A.

OFUYA, C. O. & AKPOTI, P. Post-processing and shelf stability of gari marketed in Port Harcourt 389

OKAGBUE, R. N. A note on the leavening activity of yeasts isolated from Nigerian palm wine 235

ONO, K. *see* STERN, N. J.

OTERO, A., GARCÍA, M. C., GARCÍA, M. L., PRIETO, M. & MORENO, B. Behaviour of *Staphylococcus aureus* strains, producers of enterotoxins C_1 or C_2, during the manufacture and storage of Burgos cheese 117

OTTIH, R. M. *see* SOKARI, T. G.

PAPON, M. & TALON, R. Factors affecting growth and lipase production by meat lactobacilli strains and *Brochothrix thermosphacta* 107

PASTER, N., JUVEN, B. J. & HARSHEMESH, H. Antimicrobial activity and inhibition of aflatoxin B1 formation by olive plant tissue constituents 293
PEREZ, J. *see* RODRIGUEZ, Ma. M.
PHILLIPS, A. P. & MARTIN, K. L. Investigation of spore surface antigens in the genus *Bacillus* by the use of polyclonal antibodies in immunofluorescence tests 47
PLAZA, C. J. *see* ARRIBAS, M. L. G.
PLEASANTS, J. G. *see* PRIEST, F. G.
POH, C. L. & BAYLY, R. C. Regulation of isofunctional enzymes in *Pseudomonas alcaligenes* mutants defective in the gentisate pathway 451
PRIEST, F. G. & PLEASANTS, J. G. Numerical taxonomy of some leuconostocs and related bacteria from Scotch whisky distilleries 379
PRIETO, M. *see* OTERO, A.
PUGH, S. J. *see* ARNOTT, M. L.
PUT, H. M. C. & VAN DER MEYDEN, T. Infiltration of *Pseudomonas putida* cells, strain 48, into xylem vessels of cut *Rosa* cv. 'Sonia' 197
PUT, H. M. C. & CLERKX, A. C. M. The infiltration ability of micro-organisms *Bacillus*, *Fusarium*, *Kluyveromyces* and *Pseudomonas* spp. into xylem vessels of *Gerbera* cv. 'Fleur' and *Rosa* cv. 'Sonia' cut flowers: a scanning electron microscope study 515
RAHMAN, M. *see* NOBLE, W. C.
RAMOS-CORMENZANA, A. *see* RODRIGUEZ, Ma. M.
RAY, M. L. *see* HESSELTINE, C. W.
REWARI, R. B. *see* JUWARKAR, A.
RIVILLA, R. & GONZÁLEZ, C. Simplified methods for the microbiological evaluation of bottled natural mineral waters 273
ROBERSON, B. S. *see* STERN, N. J.
ROBERTS, T. A. *see* GIBSON, A. M.
RODRIGUES, U. M. & KROLL, R. G. Rapid selective enumeration of bacteria in foods using a microcolony epifluorescence microscopy technique 65
RODRIGUEZ, Ma. M., PEREZ, J., RAMOS-CORMENZANA, A. & MARTINEZ, J. Effect of extracts obtained from olive oil mill waste waters on *Bacillus megaterium* ATCC 33085 219
RUSSELL, A. D. *see* SHAKER, L. A.
RYAN, L. K. & KAROL, M. H. Production of an antibody to lipopolysaccharide (LPS) after immunization with a LPS-polymixin B-agarose immunogen 487
SADANA, J. R. *see* CHAND, P.
SAKAZAKI, R. *see* SHIMADA, T.
SALT, W. G. *see* KHATTAR, M. M.
SAXENA, M. *see* KUMAR, V.
SHAKER, L. A., FURR, J. R. & RUSSELL, A. D. Mechanism of resistance of *Bacillus subtilis* to chlorhexidine 531
SHARMA, S. *see* KUMAR, V.
SHIMADA, T. & SAKAZAKI, R. A serogroup of non-01 *Vibrio chlolerae* possessing the Inaba antigen of *Vibrio chlolerae* 01 141
SHUTE, L. A., GUTTERIDGE, C. S., NORRIS, J. R. & BERKELEY, R. C. W. Reproducibility of pyrolysis mass spectrometry: effect of growth medium and instrument stability on the differentiation of selected *Bacillus* species 79
SIMPSON, W. J., HAMMOND, J. R. M. & MILLER, R. B. Avoparcin and vancomycin: useful antibiotics for the isolation of brewery lactic acid bacteria 299
SINGH, L. J. & TIWARI, D. N. Some important parameters in the evaluation of herbicide toxicity in diazotrophic cyanobacteria 365
SLOSS, L. L. *see* HOLMES, B.
SOKARI, T. G., IBIEBELE, D. D. & OTTIH, R. M. Antibiotic resistance among coliforms and *Pseudomonas* spp. from bodies of water around Port Harcourt, Nigeria 355
STERN, N. J., KAZMI, S. U., ROBERSON, B. S., ONO, K. & JUVEN, B. J. Response of *Campylobacter jejuni* to combinations of ferrous sulphate and cadmium chloride 247
STEYN, P. L. *see* LOCHNER, H. H.
STRETTON, R. J. *see* KHATTAR, M. M.
STRIJDOM, B. W. *see* LOCHNER, H. H.
STRINGER, M. F. *see* BETTS, R. P.
SÜAREZ FERNANDEZ, G. *see* BLANCO, J. L. *also* VAZQUEZ-BOLAND, J. A.
TAKEUCHI, S. *see* YOSHIDA, K.
TALON, R. *see* PAPON, M.
THOMAS, D. S. *see* HENSCHKE, P. A.
THOMAS, C. J. & MASTERS, F. Microbial spoilage of pre-cooked potato-topped pies 227
TIWARI, D. N. *see* SINGH, L. J.
UMEDA, A. *see* YOSHIDA, K.
VAN DER MEYDEN, T. *see* PUT, H. M. C.
VAN VUUREN, H. J. J. *see* DICKS, L. M. T.
VAZQUEZ-BOLAND, J. A., DOMINGUEZ RODRIGUEZ, L., GARAYZABAL, F., BLANCO CANCELO, J. L., GOMEZ-LUCIA, E., BRIONES DIESTE, V. & SUAREZ FERNANDEZ, G. Serological studies on *Listeria grayi* and *Listeria murrayi* 371
WEINBERG, Z. G., ASHBELL, G. & AZRIELI, A. The effect of applying lactic bacteria at ensilage on the chemical and microbiological composition of vetch, wheat and alfalfa silages 1
WEST, P. A. An improved procedure for shipboard enumeration of faecal indicator bacteria from sewage sludge disposal areas 345

WIBOWO, D., FLEET, G. H., LEE, T. H. & ESCHENBRUCH, R. E. Factors affecting the induction of malolactic fermentation in red wines with *Leuconostoc onenos*

WOKATSCH, R. & BOCKEMÜHL, J. Serovars and biovars of *Campylobacter* strains isolated from humans and slaughterhouse animals in northern Germany 135

WYATT, G. M. & ARCHER, D. B. Response of populations of human faecal bacteria to viscosity *in vitro* 163

YOSHIDA, K., ICHIMAN, Y., UMEDA, A. & TAKEUCHI, S. Demonstration of capsule in a strain of *Staphylococcus hyicus* by an electron microscope 483

Index of Subjects

Aflatoxin (Blanco, Domínguez, Gómez-Lucia, Garayzabal, Goyache & Süarez) 17
Aflatoxin B1 formation (Paster, Juven & Harshemesh) 293
Antibacterial activity (Rodriguez, Perez, Ramos-Cormenzana & Martinez) 219
Antibiotic production by streptomycetes (Berwick) 9
Antibiotic resistance (Sokari, Ibiebele & Ottih) 355
Antibody to lipopolysaccharide (Ryan & Karol) 487
Azelaic acid (Bojar, Holland, Leeming & Cunliffe) 497
Bacillus cereus from drugs (Arribas, Plaza, de la Rosa & Mosso) 257
Bacterial enumeration (Rodrigues & Kroll) 65
Bacterial systematics (International Committee on Systematic Bacteriology) 283
Brucellosis in buffaloes (Chand, Khanna & Sadana) 445
Campylobacter strains (Wokatsch & Bockemühl) 135
Campylobacter jejuni and injury (Humphrey) 337
Campylobacter jejuni and metals (Stern, Kazmi, Roberson, Ono & Juven) 247
Chemical resistance of spores (Leaper & Bloor) 183
Chlorhexidine resistance (Shaker, Furr & Russell) 531
Clostridium botulinum (Lund, Graham & George) 241
Clostridium botulinum type B toxin (Gibson, Modi, Roberts, Hambleton & Melling) 285
Demethylmenaquinone analysis (Hiraishi) 103
Detection of irradiated foods using DEFT (Betts, Farr, Bankes & Stringer) 329
Detection of salmonellas (Arnott, Gutteridge, Pugh & Griffiths) 409
ELISA determination of inoculant quality (Lochner, Strijdom, Kishinevsky & Steyn) 209
Electronic detection of yeasts (Henschke & Thomas) 123
Encapsulation of *Staphylococcus hyicus* (Yoshida, Ichiman, Umeda & Takeuchi) 483
Enterococci of young chickens (Kaukas, Hinton & Linton) 57
Enumerating *E. coli* in water (Havelaar & During) 89
Enzymes in *Pseudomonas alcaligenes* (Poh & Bayly) 451
Erwinia carotovora (Maddox & Harrison) 169
Faecal bacteria in marine sludge (West) 345
Gari (Ofuya & Akpoti) 389
Herbicide toxicity in cyanobacteria (Singh & Tiwari) 365
Infiltration into xylem vessels (Put & Clerkx) 515
Intestinal proteolysis (MacFarlane, Allison, Gibson & Cummings) 37
Isolation of lactic acid bacteria (Simpson, Hammond & Miller) 299
Klebsiella pneumoniae (Lappin-Scott, Cusack, MacLeod & Costerton) 541
Lactobacilli in wine (Dicks & van Vuuren) 505
Leavening activity of yeasts (Okagbue) 235
Leprosy (Kumar, Khanna, Saxena & Sharma) 471
Leuconostocs from whisky (Preist & Pleasants) 379
Lipase production (Papon & Talon) 107
Malolactic fermentation (Wibowo, Fleet, Lee & Eschenbruch) 421
Mineral water quality (Rivilla & González) 273
Minitek system (Holmes & Humphrey) 151
Murcha and ragi (Hesseltine & Ray) 395
Olaquindox and pig gut ecology (Hedges & Linton) 429
Olaquindox resistance (Linton, Hedges & Bennett) 311
Plant growth-altering effects (Kucey) 187
Plasmids in coryneform bacteria (Kerry Williams & Noble) 475
Providencia alcalifaciens (Holmes, Costas & Sloss) 27
Pseudomonas putida infiltration (Put & van der Meyden) 197
Psychrotrophic bacteria (Cox & Mac Rae) 403
Purogene (Harakeh, Illescas & Matin) 459
Pyrithione growth inhibition (Khattar, Salt & Stretton) 265
Pyrolysis mass spectrometry (Shute, Gutteridge, Norris & Berkeley) 79
Serogroup of non-01 *Vibrio cholerae* (Shimada & Sakazaki) 141
Serological studies on *Listeria* spp. (Vazquez-Boland, Dominguez Rodriguez, Garayzabal, Blanco Cancelo, Gómez-Lucía, Briones Diesta & Suarez Fernandez) 371
Silage (Weinberg, Ashbell & Azrieli) 1
Spoilage of pies (Thomas & Masters) 227

Spore antigens of *Bacillus* spp. (PHILIPS & MARTIN) 47
Staphylococcus aureus (OTERO, GARCÍA, GARCÍA, PRIETO & MORENO) 117
Staphylococcus hyicus (NOBLE, RAHMAN & LLOYD) 145
Survival of rhizobia (JUWARKAR & REWARI) 465
Viscosity and faecal bacteria (WYATT & ARCHER) 163